Attorney Docket No. 54795-8003.US00

Amendments to the Claims:

The following is a complete listing of the claims pending in the application, as amended. This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A method of generating tethered extracellular domains of transmembrane proteins comprising:

preparing an expression vector comprising a 5' nucleic acid sequence encoding a signal polypeptide sequence, a nucleic acid sequence encoding a purification epitope tag polypeptide, a sequence <u>encoding</u> for an extracellular domain of a membrane protein, and a 3' nucleic acid encoding an <u>membrane</u> anchor polypeptide sequence;

transfecting mammalian cells with said expression vector to generate an anchor tethered protein targeted to an extracellular domain of a plasma membrane; and

displaying the anchor tethered protein on a lipid bilayer array-or-purifying and reconstituting the anchor tethered protein in membranes for displaying on a lipid bilayer array

wherein the displayed anchor tethered protein is capable of binding to a ligand.

- (Previously presented) The method according to claim 1, wherein said 3' anchor polypeptide sequence is a glycosylphosphatidylinositol (GPI) anchor sequence.
- (Previously presented) The method according to claim 2, wherein said GPIanchor sequence comprises (SEQ ID NO:3).
- 4. (Previously presented) The method according to claim 1, wherein said mammalian cells are Chinese hamster ovary (CHO) cells.
- (Previously presented) The method according to claim 1, wherein said signal sequence is an epidermal growth factor signal sequence.
- (Previously presented) The method according to claim 1, wherein said purification epitope tag is a hexa-histidine epitope tag.

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 (Withdrawn) The method according to claim 1, wherein said myristoylationencoding sequence is a c-Src myristoylation-encoding sequence.

- 8. (Withdrawn) An expression vector for generating a tethered extracellular domain protein comprising:
 - a 5' signal sequence,
 - a purification epitope tag;
 - a sequence coding for the extracellular domain of a membrane protein; and a 3' anchor sequence.
- (Withdrawn) The vector according to claim 8, wherein said anchor sequence is a GPI sequence.
- (Withdrawn) The vector according to claim 8, wherein said purification epitope tag is a hexa-histidine epitope tag.
- (Withdrawn) An expression vector for generating a tethered intracellular domain protein comprising:
 - a 5' signal sequence for myristovlation:
 - a sequence coding for the intracellular domain of a membrane protein; and
 - a 3' purification epitope tag.
- (Withdrawn) The vector according to claim 11, wherein said purification epitope tag is a hexa-histidine epitope tag.
- (Withdrawn) The method according to claim 1, wherein said mammalian cells are HEK-293 cells.
- 14. (Withdrawn) The method according to claim 1, wherein said signal sequence is selected from a protein selected from the group consisting of insulin, nerve growth

factor, platelet-derived growth factor, glucagon, ICAM-1, B7-1, TrkA, platelet-derived growth factor receptor, and CD58.